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		FULLER, BRYAN A		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/769,490	RODDY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bryan A. Fuller	3676			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 01 A	ugust 2005				
	Responsive to communication(s) filed on <u>01 August 2005</u> . This action is FINAL . 2b) This action is non-final.				
· <u>·</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
	2x parto quayro, 1000 0.5. 11, 10	3.3.216.			
Disposition of Claims		·			
4) ⊠ Claim(s) <u>1-78</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-18,22-37,41-57 and 61-75</u> is/are rej 7) ⊠ Claim(s) <u>19-21,38-40,58-60 and 76-78</u> is/are of 8) □ Claim(s) are subject to restriction and/or	wn from consideration. jected. objected to.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the liderawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/30/04, 2/27/04, 4/15/04, 6/1/04	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal P				
S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	17/03 ummary 4/05, 6/24/05 Pa	rt of Paper No./Mail Date 20050823			
8/1/05		•			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1 2, 4 9, 11 16, 18, 23, 25 28, 30 35, and 37 are rejected under
 U.S.C. 102(b) as being anticipated by Kepler et al (US 2003/0000425).

With respect to claims 1, 7, and 23: Kepler et al teaches in paragraph [0004] a method of cementing in a subterranean formation penetrated by a well bore comprising the steps of: placing a cement composition into the well bore, wherein the cement composition comprises a first cementious component having a first set time and a second cementious component comprising microencapsulated cement particles, wherein the second cementious component has a second set time that is delayed relative to the first set time of the first cementious component; allowing the first cementious component to at least partially set having at least one void; and allowing the second cementious component to set after a delay period so as to cure at least one void that forms during the setting of the first cementious component.

With respect to claim 2: Kepler et al teaches in paragraph [0004] a method wherein at least one void forms during the setting of the first cementious component.

With respect to claim 4: Kepler et al teaches in paragraphs [0004] and [0005] a method wherein second cementious component sets so as to cure at least one void that forms during the setting of the first cementious component.

With respect to claims 5 - 6, 8 - 9, 11 - 12, 25 - 28, and 30 - 31: Kepler et al teaches in paragraphs [0004] - [0009] a method wherein the second cementious component will not begin to hydrate until after the delay period, wherein the first cementious component comprises a Portland cement, a pozzolanic cement, a gypsum cement, a high alumina content cement, a silica cement, a soil cement, a calcium phosphate cement, a high alkalinity cement, or mixtures thereof, wherein the microencapsulated cement particles comprise a of cementing in a subterranean formation penetrated by a well bore Portland cement, a pozzolanic cement, a gypsum cement, a high alumina content cement, a silica cement, a soil cement, a calcium phosphate cement, a high alkalinity cement, or mixtures thereof. Additionally, the reference teaches a method wherein the microencapsulated cement particles comprise an expansive hydraulic cement. Finally, the reference teaches a method wherein the microencapsulated cement particles comprise conventional particle size cement, fine particle size cement, ultra-fine particle size cement, or mixtures thereof and wherein the microencapsulated cement particles are released into the cement composition after the delay period.

With respect to claims 13 – 16, 18, 32 – 35, and 37: Kepler et al teaches in paragraphs [0010] - [0013] a method wherein the encapsulation of the second cementious component involves at least one coating of a degradable material, wherein

the coating should not substantially degrade for at least six hours, wherein the degradable material prevents incorporation of the microencapsulated cement particles into the cement composition until after the delay period. The reference also teaches a method wherein the degradable material is a degradable polymeric material. Lastly, the reference teaches a method wherein the second cementious component is present in the cement composition in a first cementious component-to-second cementious component weight ratio in the range of from about 50:50 to about 90:10.

With respect to claim 22: Kepler et al teaches in paragraphs [0007] – [0010] a method wherein the cement composition further comprises fly ash, a silica compound, a fluid loss control additive, a surfactant, a dispersant, an accelerator, a retarder, salt, mica, fiber, a formation conditioning agent, bentonite, microspheres, a weighting material, or a defoamer.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3, 24, 41 48, 50 55, 57, 61 66, 68 73, and 75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kepler et al in view of Simpson et al (US 2002/0182574).

With respect to claims 3, 24, 41 – 48, 50 – 55, 57, 61 – 66, 68 – 73, and 75: Kepler et al teaches the features as previously claimed except for wherein an expandable tubular is placed into the well bore, expanding the expandable tubular, and at least one void is due to at least the use of the expandable tubular. Simpson et al teaches in paragraphs [0026] – [0027] a method wherein an expandable tubular is placed into the well bore, expanding the expandable tubular, and at least one void is due to at least the use of the expandable tubular. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Kepler et al's invention by using an expandable tubular is placed into the well bore, expanding the expandable tubular, and at least one void is due to at least the use of the expandable tubular in view of Simpson et al. The motivation for this combination is that a fluid path may be left between the expanded tubular and the well bore in order to provide a flow path for fluids, including cement.

5. Claims 10 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kepler et al in view of Harris et al (5,086,850).

With respect to claims 10 and 29: Kepler et al teaches the features as previously claimed except for wherein the microencapsulated cement particles comprise an ultrafine particle size cement having particle size diameters not greater than about 30 microns. Harris et al teaches in the abstract a method wherein the microencapsulated cement particles comprise an ultra-fine particle size cement having particle size diameters not greater than about 30 microns. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified

Kepler et al's invention by using cement particles with diameters not greater than about 30 microns in view of Harris et al. The motivation for this combination is that the use of such finely divided cement significantly reduces the waiting time required for the slurry to develop sufficient compressive strength.

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6. Claims 17 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kepler et al in view of Moradi-Araghi et al (6,387,986).

With respect to claims 16 and 36: Kepler et al teaches the features as previously claimed except for the use of a specific degradable polymeric coating material. Moradi-Araghi et al teaches in column 3, lines 8 - 17 a method wherein a specific degradable polymeric coating material is used. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Kepler et al's invention by using a specific degradable polymeric coating material in view of Moradi-Araghi et al. The motivation for this combination is that the use of the specific degradable polymeric coating material allows for the degradation to occur in numerous ways.

7. Claims 49 and 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kepler et al and Simpson et al as applied to claims 46 and 62 above, and further in view of Harris et al.

With respect to claims 49 and 67: Kepler et al and Simpson et al teach the features as previously claimed except for wherein the microencapsulated cement particles comprise an ultra-fine particle size cement having particle size diameters not greater than about 30 microns. Harris et al teaches in the abstract a method wherein

the microencapsulated cement particles comprise an ultra-fine particle size cement having particle size diameters not greater than about 30 microns. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the combination of Kepler et al's and Simpson et al's invention by using cement particles with diameters not greater than about 30 microns in view of Harris et al. The motivation for this combination is that the use of such finely divided cement significantly reduces the waiting time required for the slurry to develop sufficient compressive strength.

8. Claims 56 and 74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kepler et al and Simpson et al as applied to claims 52 and 73 above, and further in view of Moradi-Araghi et al.

With respect to claims 56 and 74: Kepler et al and Simpson et al teach the features as previously claimed except for the use of a specific degradable polymeric coating material. Moradi-Araghi et al teaches in column 3, lines 8 - 17 a method wherein a specific degradable polymeric coating material is used. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the combination of Kepler et al's and Simpson et al's invention by using a specific degradable polymeric coating material in view of Moradi-Araghi et al. The motivation for this combination is that the use of the specific degradable polymeric coating material allows for the degradation to occur in numerous ways.

Allowable Subject Matter

9. Claims 19 – 21, 38 – 40, 58 – 60, and 76 – 78 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan A. Fuller whose telephone number is (571) 272-8119. The examiner can normally be reached on M - Th 7:30 - 5:00 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian E. Glessner can be reached on (571) 272-6843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Art Unit: 3676

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Brian E. Glessner

Supervisory Patent Examiner Art Unit 3676

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